



Q U A D R U S
C O R P O R A T I O N

Building the Future of Integration!

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MSFC Prime Contractor Supplier Council

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Who Are We?



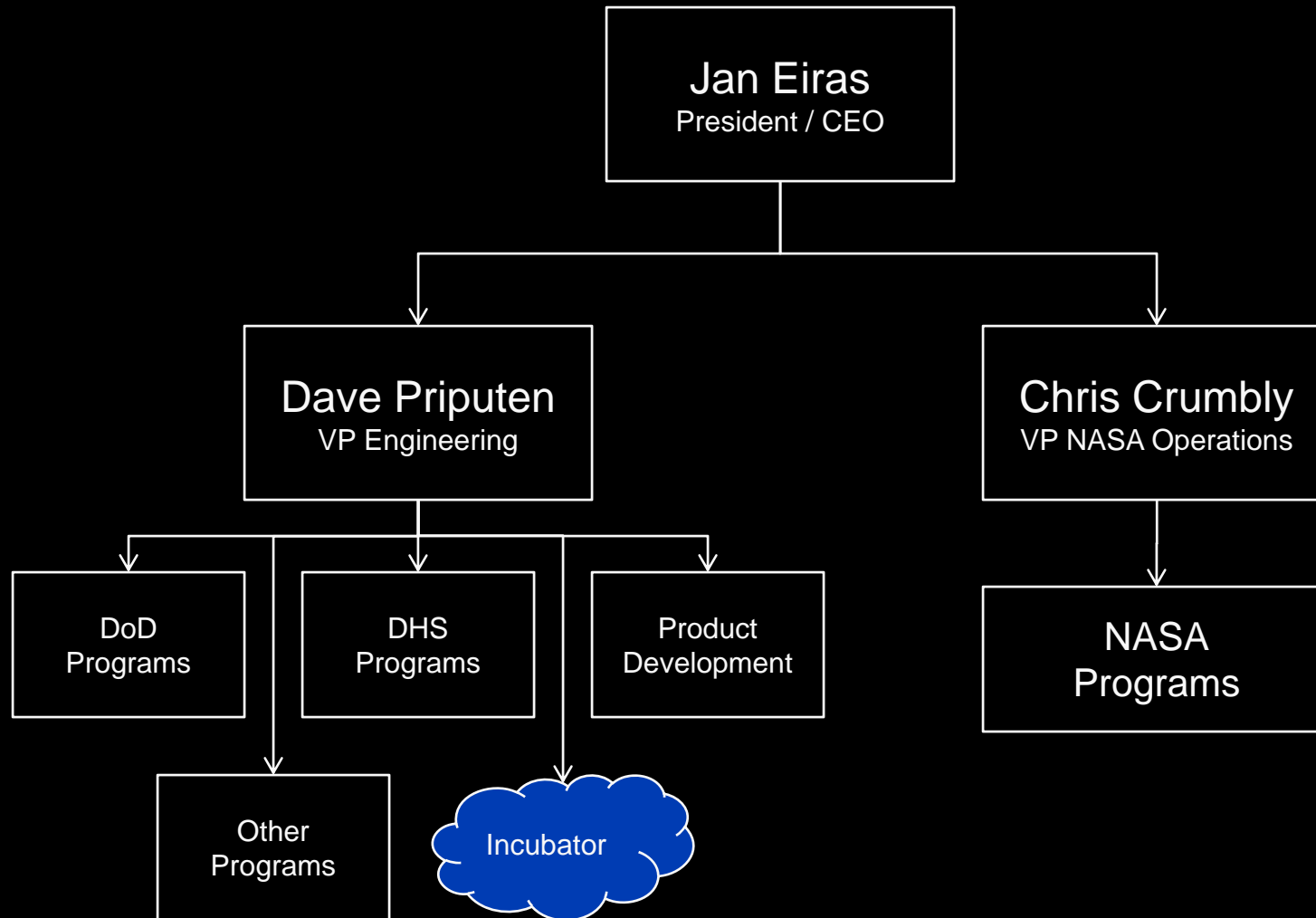
Quadrus Corporation

- A Technical Services company
 - ✓ Systems & Software Engineering, System Integration, Test
- A Software Development Company
 - ✓ Software lifecycle – Requirements through Verification / Qualification
- A Technology Products developer
 - ✓ COTS and semi-custom tools
- Founded in 1995 and supports nationwide operations
- Award winning engineering team
- Extensive experience in launch systems, missile defense, Command & Control, ground systems, EGSE, flight software, and Flight Test
- Extensive experience in Modeling and Simulation, communications, data acquisition, data analysis, and interoperability.

A better solution to the Cost-Schedule-Quality/Risk Triangle Equation



Quadrus Organization



Core Competencies



Quadrus Core Competencies

- Systems Engineering

- ✓ Interface Design
- ✓ Telemetry design
- ✓ Requirements flow down
- ✓ Requirements verification
- ✓ Technical Program Management Support

- Software Development

- ✓ Data analysis Tools
- ✓ Data management tools
- ✓ Automated verification test consoles
- ✓ Simulators & emulators for integration and testing
- ✓ Real-time embedded development

- System Test

- ✓ Test development support
- ✓ Test management support
- ✓ Test planning support
- ✓ Test execution support

- COTS and Semi-custom Tools

- ✓ GenITC for Point-to-Point communications
- ✓ DICE for Multi-Point communications on multiple physical interfaces
- ✓ Telemetry ground systems and analysis systems
- ✓ Automated Data Analysis and Requirements Verification



What can you do with the tools?

Here are just a few ideas...

- Create, modify, delay, or block any message or simply record on the wire “truth”
- Analyze human-readable data, instead of raw hexadecimal
- Break the chains of canned data without breaking the bank
- Verify requirements – even automate the process
- Create off-nominal tests otherwise impossible
- Create emulators in hours rather than months
- Train console operators (nominal or off-nominal)
- Translate between two different interfaces
- Validate your system – exercise a wide variety of scenarios with no coding
- Avoid one-off special purpose emulators
- Perform on-the-fly data conversion and time adjustment
- Enhance simulators or recorded data playback with full control
- Achieve a degree of insight into and control of your system that has never before been possible.

Lower costs, shorten schedules, AND lower technical risk.



Partnerships



Existing Partnerships

- Small Business

- ✓ Orion Propulsion
- ✓ Victory Solutions
- ✓ HASBAT
- ✓ DBG

- ✓ BRC

- ✓ Aetos Systems

- ✓ Tec Masters

- ✓ Others

- Large Business

- ✓ Boeing
- ✓ Lockheed-Martin
- ✓ Raytheon

- ✓ Jacobs

- ✓ CSC



Desired Partnerships

- Small Business
 - ✓ Additional small businesses selected for specific skills or capabilities that complement ours.
- Large Business
 - ✓ We would like to extend our partnership with the council members that we are already doing business with on DoD programs to include NASA efforts.
 - ✓ Expand and refine our partnership with those NASA primes we are already working with, including other NASA centers.
 - ✓ Explore potential relationships with the other primes on the council.



Current Activities



Current NASA Activity

- Ares I
 - ✓ ISTA Software and Integration Support
 - ✓ Upper Stage Mechanical Design Support
- Ares V
 - ✓ Program Office Technical Support

The Future



Why Quadrus?

- Where we came from:
 - ✓ Why am I an engineer?
- Where we are:
 - ✓ DoD and expanding into NASA
- Where we want to go:
 - ✓ Manned exploration – Space is the new frontier again.

Thank You for Your Time!



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For more Information See our website - www.QuadrusCorp.com

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